

Remarks

The applicant would like to thank the Examiner for the thorough review and consideration of the present application.

Oath/Declaration

The Examiner has pointed out the oath or declaration is defective because the inventor's signature does not in compliance with the requirement regarding S-signature as defined in 37 CFE 1.4(d)(2). A new oath or declaration form (sb0004) has been attached in the attachment list.

Drawings

The Examiner has raised objection to the Drawing FIG. 1A, the amended replacement drawing sheet for FIG. 1A has been attached in the attachment list.

Abstract

The Examiner has raised objection to the Abstract of the disclosure because it exceeds 150 words in length. The Abstract has been rewritten to overcome the objection raised by the Examiner.

Specification

The Examiner has raised objection to the specification because of the informalities. The specification has been amended to eliminate the typographical error.

Claim Objections

The Examiner has objected to the informalities concerning the typographical errors occurring in the claims 11 and 81. The claims have been amended to eliminate these typographical errors.

Claims Rejections - 35 USC § 112

The Examiner has rejected claims 1-138 under 35 U.S.C. 112 as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims have been amended to correct the errors.

Recommendations

The Examiner has suggested for clarification purposes, that in line 9 of the claim 13 "reroute a calling to said marker to a new function" to be replaced with "reroute a calling to said marker function to a new function". The claim has been amended to accept the Examiner suggestion.

Claim Rejections - 35 USC § 102

The Examiner has rejected claims 1-3, 48-51, 71-73, 116-119, and 139-140 as being anticipated under 35 USC 102(e) by Chailleux, U.S. Patent Application Publication No. 2002/0109736A1 published August 15, 2002.

With respect, it is submitted that there are fundamental differences between the rejected claims and the teachings of Chailleux.

Regarding Office Action 12-1,

1. This application utilizes a **software controller** to automatically and programmatically **control** the software to identify the **model** of the software. The identified model includes not only the state of display(so called "screenshots"), but also the model information about the software, such as positions and sizes of graphical user interface elements, etc.. Chailleux does not use a software to control the software and requires an **author** to operate manually the software to create screenshots that do not include any model information about the software.
2. This application utilizes the same **software controller** used in the modeling process to automatically and programmatically control the identified **model** of the software in the simulation process. Chailleux uses a java applet to play back the manually captured screenshots that do not include any model information about the software.

Regarding Office Action 12-2,

by reciting claim 2 with "driven by said software controller", the applicant respectfully requests the Examiner reconsideration of this rejections and applicable for other claims that depend on the claim 2.

Regarding Office Action 12-3, 12-4,

1. This application utilizes the same **software controller** to control and interact with the software in the **modeling process**, and the identified **model** of the software in the **simulation process**. Chailleux requires another program to automatically perform the authoring steps, such as selecting screen shots, designating cursor movements, defining "bubble" text, etc. at edit time, which **does not control or interact** with the software, and the java applet to playback the manually captured screenshots that do not include any model information about the software.

Regarding Office Action 12-5,

1. This application utilizes the same **software controller** used in the modeling process with the identified **model** of the software to simulate the interaction between the software and the **software controller** in the simulation process. Chailleux uses the java applet to play back the manually captured screenshots that do not include any model information about the software.

Regarding Office Action 12-6,

1. This application augments additional computation through the programmable

interaction loop between the **software controller** and the **model** of the software. Chailleux adds "bubble" text, advertising banner, etc., to playback screenshots that do not include any model information about the software.

Regarding Office Action 12-7,

1. This application utilizes the **software controller** to provide an interaction input component H to engage a **user** at the simulation time (run time). Chailleux requires an author instead of a user, to perform editing and checking of the cursor shape and movement at the edit time instead of run time.
2. This application utilizes the **software controller** to provide an index component G to programmatically **control** the visibility of the software simulation automation at the simulation time (run time). Chailleux requires an author instead of a user, to select manually the slide at the edit time instead of run time.
3. This application utilizes the **software controller** to provide a programmable extension component E to extend programmatically the software simulation automation at the simulation time (run time). Chailleux adds the advertising banner through the java applet that does not use the software controller to extend the simulation of the software.

Regarding Office Action 12-8,

by reciting claim 72 with "driven by said software controller", the applicant respectfully requests the Examiner reconsideration of this rejections and applicable for other claims that depend on the claim 72.

The same analysis of claims 1, 3, and 48-51 is applied for the claim 71, 73, 116-119.

Regarding Office Action 12-9, 12-10,

1. This application utilizes a **second software** to automatically and programmatically **control** a first software to identify the **model** of the software. The identified **model** includes not only the state of display(so called "screenshots"), but also the model information about the software, such as positions and sizes of graphical user interface elements, etc.. Chailleux does not use any software to control the software and requires an **author** to operate manually the software to create screenshots that do not include any model information about the software.
2. This application utilizes the **second software** to synthesize the input actions and apply the synthesized input actions to the first software in the modeling process. Chailleux does not use any software to synthesize the input action and require an author to operate manually on the software at the capture time.

3. This application utilizes the same **second software** used in the modeling process to automatically and programmatically control the identified **model** of the first software in the simulation process. Chailleux uses a java applet to play back the manually captured screenshots that do not include any model information about the software.
4. This application connects the same **second software** used in the modeling process with the identified model of the first software to construct a third software. Chailleux uses a java applet with the manually captured screenshots that do not include any model information about the software.

Summary

Chailleux uses an authoring program that requires a human operator to manually operate on the software in order to capture the screenshots. The authoring program does not control the behavior of the software. Chailleux does not identify any model information about the software. Chailleux uses an authoring program that depends on a human operator to manually capture the screenshots. The length and complexity of sequence of screenshots that can be made manually is limited. Chailleux uses the java applet to play back the screenshots that do not include any model information about the software.

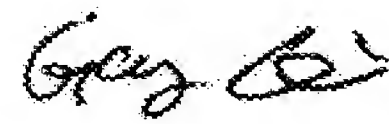
In contrast, this application utilizes the **software controller** that automatically and programmatically **controls** the software in order to identify the **model** of the software. The **software controller** controls behavior of the software. This application identifies the model information about the software. this application utilizes the **software controller** to perform more precise as well as more complex tasks, such as drawing outlines, design lengthy animation, etc. without any limitation. This application utilizes the same **software controller** to control the identified **model** of the software to simulate the interaction between the software and the **software controller** in the simulation process as a new software automation. This application further extends the simulation process with other programmable components and constructs a new interactive software.

As is well known, software is a tool to perform tedious, laborious, sometimes complex and impossible manual job for human and a utility to simulate the phenomena of world. Controlling the software by the **software controller** to identify the **model** of the software, and then using the same **software controller** to control the identified **model** to simulate the interaction between the software and the **software controller**, itself creates a new genre of software or utility that is distinguished by its systematical precision and mathematical rigor for simulations of software phenomena and replications of expert knowledge all at once. These novel and unobvious features hence make this application patentable under USC § 101, 102, 103 since they are useful and produce new and unexpected results over Chailleux and other prior art.

Conclusion

The preceding remarks and the concurrently filed amendments are believed to be fully responsive to the Office Action dated June 6, 2007, and that application is believed to be in condition for allowance. Since applicant is out of the country temporarily, if the Examiner believes the further amendment or clarification is required to place this application in condition for allowance, please contact applicant at the e-mail address below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Gang Qiu", with a stylized flourish at the end.

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Attachment list

1. Amended replacement drawing sheet for FIG. 1A;
2. Abstract of disclosure;
3. Amended specification;
4. Amended claims;
5. New Oath/Declaration (Filled SB0004).